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ISO 9001:2008
CONSULTANTS & TESTING CENTER

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/KRIDL/W.No.14/CEMENT/2017-18

Date: 21.06.2017

TEST REPORT ON CEMENT

CLIENT	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, BBMP, Bangalore.
NAME OF THE WORK	:	Improvements to drain at near Byraveshwara Circle 4th, 5th, cross roads in Bagalagunte in Ward No.14 T.Dasarahalli subdivision, BBMP, Bangalore.
SAMPLE ID	:	Cement
DATE OF TESTING	:	21.06.2017

The results of the tests conducted on the cement sample are as follows:

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Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	178 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CECTC/BBMP/KRIDL/W.No.14/AGG/GR/2017-18 : 21.06.2017

TEST REPORT ON COARSE AGGREGATES

Customer : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, BBMP, Bangalore.

Name of Work : Improvements to drain at near Byraveshwara Circle 4th, 5th, cross roads in Bagalagunte in Ward No.14 T.Dasarahalli subdivision, BBMP, Bangalore.

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Date of Testing : 21.06.2017

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.20	95-100	85-100
10	33.20	25-55	0-20
4.75	2.00	0-10	0-5

Remarks : This sample is under Graded specific limits

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1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
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Job No.: CECTC/BBMP/KRIDL/W.No.14/CUBE/2017-18 Date: 20.07.2017

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Contractor : **Technical Manager (West),** KRIDL, BBMP, Bangalore.

Name of the work : Improvements to drain at near Byraveshwara Circle 4th, 5th, cross roads in Bagalagunte in Ward No.14 T.Dasarahalli subdivision, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2017	20.07.2017	8.093	396.1	17.60
2	22.06.2017	20.07.2017	8.170	371.4	16.51
3	22.06.2017	20.07.2017	8.050	389.5	17.31

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Job No.: CECTC/BBMP/KRIDL/W.No.14/BC/QB/2017-18 29.06.2017

TEST REPORT ON DETERMINATION OF BITUMEN CHARACTERISTICS

CLIENT	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, BBMP, Bangalore.
NAME OF WORK	:	Improvements to drain at near Byraveshwara Circle 4th, 5th, cross roads in Bagalagunte in Ward No.14 T.Dasarahalli subdivision, BBMP, Bangalore.
SAMPLE ID	:	Bitumen (Bituminous Concrete)
PERIOD OF TESTING	:	29.06.2017

The results of the tests conducted on the Bitumen sample for Bituminous Concrete

Sl.No	Description	Test Method as per IS	Test Result	Requirement as per IS: 73-2013
1	Penetration at 25^{0}C, 100g, 5 Sec 1/10 mm	IS: 1203-1978 (RA-2009)	69	60 to 70
2	Softening point, ^{0}C	IS: 1205-1978 (RA-2009)	51	Min. 45
3	Ductility at 27^{0}C, cm	IS: 1208-1978 (RA-2009)	100 >	Min. 50
4	Flash Point, ^{0}C	IS: 1209-1978 (RA-2009)	300	Min. 220

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Job No.: CECTC/BBMP/KRIDL/W.No.14/BC/Sta/2017-18 29.06.2017

TEST REPORT ON STABILITY OF MIX

Client	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, BBMP, Bangalore.
Name of the Work	:	Improvements to drain at near Byraveshwara Circle 4th, 5th, cross roads in Bagalagunte in Ward No.14 T.Dasarahalli subdivision, BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	29.06.2017

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.25	10.40	9 Kn (min)
2	Marshal flow, mm	2.34	3.16	2 – 4
3	Percent air voids in Mineral Aggregate	13.45	14.15	13 – 15
4	Voids in Compacted Mix	3.85	4.32	3 – 6
5	Percent Voids filled with Bitumen	71.56	72.50	65 - 75
6	Density, g/cc	2.25	2.26	--

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